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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,361	07/17/2003	Hiroshi Sumi	Q76615	8937
65565 7590 04/09/2007 SUGHRUE-265550		EXAMINER		
2100 PENNSYLVANIA AVE. NW			NORRIS, JEREMY C	
WASHINGTON, DC 20037-3213			ART UNIT	PAPER NUMBER
		_	2841	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
2 MO	NTHS	04/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/620,361	SUMI ET AL.			
		Examiner	Art Unit			
		Jeremy C. Norris	2841			
Period fo	The MAILING DATE of this communication apports Reply	pears on the cover sheet with the c	correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		•				
1) 又	Responsive to communication(s) filed on 18 J	anuary 2007.				
/_	This action is FINAL . 2b) This action is non-final.					
<i>'</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)🖂	4)⊠ Claim(s) <u>1,2,4-8 and 10-15</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🖂	5)⊠ Claim(s) <u>1,2,4-8 and 10-15</u> is/are allowed.					
6)	6) Claim(s) is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[8) Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>02 October 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
			· ·			
Attachmen	t(s)					
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:	асен Аррисация			

DETAILED ACTION

Allowable Subject Matter

Claims 1, 2, 4-8, and 10-15 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: Claim 1 states the limitation "at least one of a radiator, a connection terminal, a cover and a circuit component selected from the group consisting of a semiconductor element, a condenser, an inductor and a resistor, connected to the conductor layer through a joining member comprising a brazing material". This limitation, in conjunction with the other claimed features, was neither found to be disclosed in, nor suggested by, the prior art. Claim 7 states the limitation "which comprises a ceramic particle having an average particle size of 100 nm or less selected from the group consisting of oxides of alkali metals and alkaline earth metals, Al₂O₃, TiO₂, CeO₂, and mullite". This limitation, in conjunction with the other claimed features, was neither found to be disclosed in, nor suggested by, the prior art.

Drawings

The drawings are objected to because since only a single view is used in the application to illustrate the claimed invention, it must not be numbered and the abbreviation "FIG." must not appear (see 37 CFR 1.84(u)(1)). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing

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should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Conclusion

This application is in condition for allowance except for the formal matters described above with respect to the drawings.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy C. Norris whose telephone number is 571-272-1932. The examiner can normally be reached on Monday - Friday, 9:30 am - 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeremy C. Norris

Patent Examiner - Technology

Center 2800 Art Unit 2841

JCSN